

Appl. No. 10/075,249  
Response dated November 18, 2004  
Reply to Office action of October 18, 2004

**Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

1. (Original) A method of determining the susceptibility of a patient to antidepressant-induced mania comprising:
  - (a) obtaining a sample from the patient; and
  - (b) testing the sample for the presence of the s variant of the 5HTTLPR polymorphism in the 5HTT gene, wherein the presence of the s variant indicates that the patient is more susceptible to antidepressant-induced mania.
2. (Original) A method according to claim 1 wherein the patient has Bipolar Disorder.
3. (Currently Amended) A method according to claim 1 ~~or 2~~ wherein the patient is treated with an antidepressant.
4. (Currently Amended) A method according to claims 3 wherein the antidepressant is a pro-serotonergic agent.
5. (Original) A method according to claim 4 wherein the pro-serotonergic agent is clomipramine, fluvoxamine, fluoxetine, paroxetine, sertraline, citalopram, imipramine, nefazodone, venlafaxine or moclobemide.
6. (Currently Amended) A method according to ~~any one of~~ claims 1 to 5 wherein the sample is blood.

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7. (Currently Amended) A method according to ~~any one of claims 1 to 6~~ wherein step (b) comprises (i) extracting nucleic acids from the sample; (ii) amplifying the extracted nucleic acids using polymerase chain reaction (PCR); (iii) performing electrophoresis of the PCR products; and (iv) determining the presence of the polymorphism.
8. (Withdrawn, Currently Amended) A kit for determining the susceptibility of a patient to antidepressant-induced mania comprising (i) reagents for conducting a method according to ~~any one of claims 1 to 7~~ and (ii) instructions for its use.
9. (Withdrawn) A kit according to claim 8 wherein said reagents comprise nucleic acid primers for amplifying nucleic acids in a polymerase chain reaction.
10. (Withdrawn) A kit according to claim 8 wherein the reagents comprise nucleic acid primers for amplifying nucleic acids in a polymerase chain reaction, DNA polymerase, dATP, dTTP, dCTP, dGTP and buffers.
11. (Withdrawn, Currently Amended) A kit according to claim 8-10 further comprising reagents for sequencing the polymerase chain reaction product.